

IN THE CLAIMS

Please amend the claims as follow:

1. (Currently Amended) An isolated nucleic acid molecule comprising a nucleic acid molecule ~~derived~~ isolated from coffee encoding at least one enzyme ~~involved in the hydrolysis of that hydrolyzes~~ polysaccharides ~~comprising~~ having pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, wherein the enzyme is a peptide comprising at least one of the following sequences: SEQ ID NO:2, SEQ ID NO:8, SEQ ID NO:9 or SEQ ID NO:10.
2. (Currently Cancelled)
3. (Currently Cancelled)
4. (Currently Amended) A fragment of an isolated nucleic acid molecule ~~derived~~ isolated from coffee encoding at least one enzyme ~~involved in the hydrolysis of that hydrolyzes~~ polysaccharides comprising pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, comprising nucleotides 11 to 1294 of the nucleic acid sequence ~~SEQ ID NO:1~~ SEQ ID NO:1.
5. (Currently Amended) The ~~fragment of~~ nucleic acid molecule according to Claim 4, comprising ~~nucleotides 11 to 1294 of the nucleic acid sequence~~ SEQ ID NO:1 SEQ ID NO:1.
6. (Currently Amended) An isolated nucleic acid molecule having at least 90% homology with which is homologous to or hybridizes to nucleic acid sequence SEQ ID NO:1 SEQ ID NO:1, wherein the nucleic acid molecule is isolated from coffee and encodes at least one enzyme that hydrolyzes polysaccharides having pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage ~~or hybridizes to a fragment of nucleic acid sequence SEQ ID NO:1~~.
7. (Currently Amended) A recombinant vector comprising an isolated nucleic acid molecule that encodes at least one enzyme that hydrolyzes

polysaccharides having pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, wherein the enzyme is a peptide comprising SEQ ID NO:2, SEQ ID NO:8, SEQ ID NO:9, or SEQ ID NO:10 is nucleic acid sequence SEQ ID NO:1, a molecule which is homologous to or hybridizes to nucleic acid sequence SEQ ID NO:1 or a molecule that hybridizes to a fragment of nucleic acid sequence SEQ ID NO:1.

8. (Currently Cancelled)

9. (Currently Amended) A plant cell comprising an isolated nucleic acid molecule, or fragment thereof, encoding at least one enzyme ~~involved in the hydrolysis of that~~ hydrolyzes polysaccharides comprising a pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, wherein the enzyme is a peptide comprising SEQ ID NO:2, SEQ ID NO:8, SEQ ID NO:9, or SEQ ID NO:10 and the said isolated nucleic acid molecule, or fragment thereof is integrated into the plant cell genome.

10. (Currently Cancelled)

11. (Original) The plant cell according to Claim 9, specifically as a coffee cell.

12. (Original) A plant or seed comprising plant cells according to Claim 9.

13. (Currently Amended) A microorganism comprising an isolated nucleic acid molecule, or fragment thereof, encoding at least one enzyme ~~involved in the hydrolysis of that~~ hydrolyzes polysaccharides comprising pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, wherein the enzyme is a peptide comprising SEQ ID NO:2, SEQ ID NO:8, SEQ ID NO:9, or SEQ ID NO:10 and the said isolated nucleic acid molecule, or fragment thereof is integrated into the genome or plasmid of said microorganism.

14. (Currently Amended) The microorganism according to Claim 13 ~~Claim 14, wherein comprising~~ the isolated nucleic acid molecule has at least 90%

~~homology with SEQ ID NO:1 is nucleic acid sequence SEQ ID NO:1, a molecule which is homologous to or hybridizes to nucleic acid sequence SEQ ID NO:1 or a molecule that hybridizes to a fragment of nucleic acid sequence SEQ ID NO:1.~~

15. (Currently Amended) A dietary, cosmetic or pharmaceutical composition that includes a fragment according to Claim 4 ~~Claim 1~~, or an isolated nucleic acid molecule that encodes at least one enzyme that hydrolyzes polysaccharides having pure or branched mannan molecules linked to each other via a β (1 \rightarrow 4) linkage, wherein the enzyme is a peptide comprising SEQ ID NO:2 or SEQ ID NO:8, SEQ ID NO:9 and SEQ ID NO:10 ~~that is nucleic acid sequence SEQ ID NO:1, a molecule which is homologous to or hybridizes to nucleic acid sequence SEQ ID NO:1 or a molecule that hybridizes to a fragment of nucleic acid sequence SEQ ID NO:1.~~

16-18. (Currently Cancelled)

19. (Currently Added) The nucleic acid molecule of Claim 1, wherein the nucleic acid molecule has at least 90% homology with SEQ ID NO:1.

20. (Currently Added) The nucleic acid molecule of Claim 19, wherein the nucleic acid molecule is SEQ ID NO:1 or nucleotides 11 to 1294 of the nucleic acid sequence SEQ ID NO:1.

21. (Currently Added) The nucleic acid molecule of Claim 6, wherein the nucleic acid molecule is SEQ ID NO:1 or nucleotides 11 to 1294 of the nucleic acid sequence SEQ ID NO:1.

22. (Currently Added) A recombinant vector comprising an isolated nucleic acid molecule according to Claim 6.

23. (Currently Added) A plant cell or microorganism comprising an isolated nucleic acid molecule according to Claim 6.

24. (Currently Added) The cell of Claim 23, wherein the cell is a coffee cell.

25. (Currently Added) A dietary, cosmetic or pharmaceutical composition that includes a nucleic acid molecule according to Claim 6.

26. (Currently Added) The recombinant vector of Claim 7, wherein the nucleic acid molecule is SEQ ID NO:1 or nucleotides 11 to 1294 of the nucleic acid sequence SEQ ID NO:1.

27. (Currently Added) The microorganism of Claim 14, wherein the nucleic acid molecule is SEQ ID NO:1 or nucleotides 11 to 1294 of the nucleic acid sequence SEQ ID NO:1.